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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,189	09/12/2003	Gregor P. Freund	VIV/0011.01 2188	
28653 7590 01/23/2008 EXAMINER				
708 BLOSSOM HILL RD., #201			HA, LEYNNA A	
LOS GATOS, CA 95032			ART UNIT	PAPER NUMBER
		•	2135	
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			MAIL DATE	DELIVERY MODE
			01/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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,	Application No.	Applicant(s)				
055 - 4 - 4' 0	10/605,189	FREUND, GREGOR P.				
Office Action Summary	Examiner	Art Unit				
· · · · · · · · · · · · · · · · · · ·	LEYNNA T. HA	2135				
 The MAILING DATE of this communication app Period for Reply 	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir- vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 10 No.	<u>ovember 2007</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E						
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-47</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-47</u> is/are rejected.						
7) Claim(s) is/are objected to.		·				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	anniner. Note the attached Office	Action of 10/11/1 10-102.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	;d.				
·						
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

1. Claims 1-47 are pending.

2. In view of the Appeal Brief filed on 11/10/2007, PROSECUTION IS

HEREBY REOPENED. A Non-Final rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a

reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31

followed by an appeal brief under 37 CFR 41.37. The previously paid notice of

appeal fee and appeal brief fee can be applied to the new appeal. If, however,

the appeal fees set forth in 37 CFR 41.20 have been increased since they were

previously paid, then appellant must pay the difference between the increased

fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening

prosecution by signing below:

Gilberto Barron.

GILBERTO BARRON JA PERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-47 are rejected under 35 U.S.C. 102(e) as being anticipated by Dugan, et al. (US 6,804,711).

As per claim 1:

Dugan discloses a method for controlling interprocess communication, the method comprising:

defining rules (col.12, lines 45-67 and col.18, lines 57-67) indicating which system services a given application can invoke using interprocess communication to invoke said system services; (col.14, lines 55-66 and col.17, lines 24-41)

trapping an attempt by a particular application to invoke a particular system service; (col.13, lines 50-67 and col.15, lines 16-24)

identifying the particular application that is attempting to invoke the particular system service; and (col.18, line 47-col.19, line 56)

based on identity of the particular application and on the rules indicating which system services a given application can invoke (col.20, lines 35-62 and col.21, lines 27-32), blocking the attempt when the rules indicate that the particular application cannot invoke the particular system service. (col.26, line 42-col.27, line 18)

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As per claim 2: See col.13, lines 50-67 and col.15, lines 16-24; discussing the method of claim 1, wherein said trapping step includes intercepting operating system calls for invoking the particular system service.

As per claim 3: See col.13, lines 50-67 and col.15, lines 16-24; discussing the method of claim 1, wherein said trapping step includes intercepting local procedure calls for invoking the particular system service.

As per claim 4: See col.13, lines 50-67 and col.17, lines 24-41; discussing the method of claim 1, wherein said trapping step includes intercepting an attempt to open a communication channel to the particular system service.

As per claim 5: See col.13, lines 56-67 and col.19, lines 1-67; discussing the method of claim 1, wherein said trapping step includes rerouting an attempt to invoke the particular system service from a system dispatch table to an interprocess communication controller for determining whether to block the attempt based on the rules.

As per claim 6: See col. 17, lines 42-67 and col.26, lines 1-24; discussing the method of claim 5, wherein said step of rerouting attempts to invoke the particular system service from a dispatch table to the interprocess

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communication controller includes replacing an original destination address in the system dispatch table with an address of the interprocess communication controller.

As per claim 7: See col. 17, lines 42-67 and col.26, lines 1-24; discussing the method of claim 6, further comprising the steps of: retaining the original destination address; and using the original destination address for invoking the particular system service if the interprocess communication controller determines not to block the attempt.

As per claim 8: See col.25, lines 60-67 and col.27, lines 43-56; discussing the method of claim 1, wherein the rules specifying which system services a given application can invoke are established based on user input.

As per claim 9: See col.20, lines 35-62 and col.22, lines 45-50; discussing the method of claim 1, wherein the step of blocking the attempt is based upon consulting a rules engine for determining whether the particular application can invoke the particular system service.

As per claim 10: See col.20, lines 35-62 and col.22, lines 45-50; discussing the method of claim 1, wherein the step of blocking the attempt includes obtaining user input as to whether the particular application can invoke the particular system service.

As per claim 11: See col.27, lines 43-56; discussing the method of claim 10, wherein said step of obtaining user input as to whether the particular application can invoke the particular system service includes the substeps of:

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providing information to the user about the particular application that is attempting to invoke the particular system service; and receiving user input as to whether the particular application should be blocked from invoking the particular system service.

As per claim 12: See col.5, lines 50-60; discussing the computer-readable medium having computer-executable instructions for performing the method of claim 1.

As per claim 13: See col.21, lines 54-60; discussing downloading a set of computer-executable instructions for performing the method of claim 1.

As per claim 14:

Dugan discloses in a computer system, a method for regulating communications between processes, the method comprising:

defining a policy (col.12, lines 45-67 and col.18, lines 57-67) specifying whether one process may use interprocess communication (col.14, lines 55-66 and col.17, lines 24-41) to communicate with another process; (col.8, lines 50-58)

intercepting an attempt by a first process to communicate with a second process; (col.13, lines 50-67 and col.15, lines 16-24)

identifying the first process that is attempting to communicate with the second process; (col.18, lines 47-55)

identifying the second process; (col.19, lines 3-56)

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based on said policy, determining whether the first process may communicate with the second process; and (col.19, line 57 - col.20, line 9)

allowing the first process to communicate with the second process if said policy indicates that the first process may communicate with the second process. (col.20, lines 35-62 and col.21, lines 27-32)

As per claim 15: See col.8, lines 50-58; discussing the method of claim 14, wherein the first process comprises an instance of an application program.

As per claim 16: See col.12, lines 45-67; discussing the method of claim 14, wherein the second process comprises a system service.

As per claim 17: See col.15, lines 16-24 and col.21, lines 27-32; discussing the method of claim 14, wherein said intercepting step includes intercepting operating system calls made by the first process to attempt to communicate with the second process.

As per claim 18: See col.13, lines 50-55 and col.15, lines 16-24; discussing the method of claim 14, wherein said intercepting step includes detecting local procedure calls.

As per claim 19: See col.14, lines 55-66 and col.17, lines 24-41; discussing the method of claim 14, wherein said intercepting step includes detecting an attempt by the first process to open a communication channel to the second process.

As per claim 20: See col.13, lines 56-67 and col.19, lines 1-67; discussing the method of claim 14, wherein said intercepting step includes rerouting attempts

by the first process to communicate with the second process from a system dispatch table to an interprocess communication controller.

As per claim 21: See col.20, lines 35-62 and col.21, lines 27-32; discussing the method of claim 14, wherein said step of identifying the second process includes evaluating parameters of the attempt made by the first process to communicate with the second process.

As per claim 22: See col.19, line 57 - col.20, line 9; discussing the method of claim 14, wherein said policy specifies particular processes to be protected from communications made by other processes.

As per claim 23: See col.12, lines 30-43 and col.18, lines 3-9; discussing the method of claim 14, further comprising: providing for a process to be registered in order to be protected from communications made by other processes; and determining whether to allow the first process to communicate with the second process based, at least in part, upon determining whether the second process is registered.

As per claim 24: See col.20, lines 35-62 and col.21, lines 27-32; discussing the method of claim 23, wherein said determining step is based, at least in part, on the type of communication the first process is attempting with the second process.

As per claim 25:

Dugan discloses a method for controlling interprocess communications from one application to another, the method comprising:

registering a first application to be protected from interprocess (col.14, lines 55-66 and col.17, lines 24-41) communications of other applications; (col.18, lines 3-9 and col.20, lines 19-27)

detecting an attempt to access the first application using interprocess communication; (col.25, lines 38-67 and col.27, lines 57-67)

identifying a second application that is attempting to access the first application using interprocess communication; and (col.18, line 47-col.19, line 56)

rerouting the attempt to access the first application through an interprocess communication controller that determines whether to allow the attempt (col.13, lines 50-55 and col.15, lines 16-24), based on rules (col.12, lines 45-67 and col.18, lines 57-67) indicating whether the second application may access the first application using interprocess communication. (col.20, lines 35-62 and col.21, lines 27-32)

As per claim 26: See col.12, lines 30-43 and col.18, lines 3-9; discussing the method of claim 25, wherein said registering step includes supplying rules specifying particular communications from which the first application is to be protected.

As per claim 27: See col.19, line 57 - col.20, line 9; discussing the method of claim 26, wherein the interprocess communication controller determines whether to allow the attempt based, at least in part, upon the rules specifying particular communications from which the first application is to be protected.

As per claim 28: See; discussing the method of claim 25, wherein said detecting step includes intercepting operating system calls for accessing the first application.

As per claim 29: See col.10, lines 28-50 and col.11, lines 20-25; discussing the method of claim 25, wherein said detecting step includes detecting a graphical device interface (GDI) message sent to the first application.

As per claim 30: See col.19, line 1- col.20, line 9; discussing the method of claim 29, wherein said identifying step includes evaluating parameters of the message sent to the first application.

As per claim 31: See col.20, lines 35-62 and col.21, lines 27-32; discussing the method of claim 25, wherein said detecting step includes detecting an attempt to send keystroke data to a window of the first application.

As per claim 32: See col.5, lines 50-67; discussing the method of claim 25, wherein said detecting step includes detecting an attempt to send mouse movement data to a window of the first application.

As per claim 33: See col.19, lines 1-67; discussing the method of claim 25, wherein said rerouting step includes rerouting the attempt to access the first application from a system dispatch table to the interprocess communication controller.

As per claim 34: See col.19, lines 1-67 and col.20, lines 28-45; discussing the method of claim 25, wherein said rules indicating whether the second application may access the first application includes rules indicating particular

types of communications which are allowed.

As per claim 35: See col.20, lines 35-62 and col.21, lines 27-32; discussing the method of claim 25, further comprising: if the interprocess communication controller allows the attempt to access the first application, routing the attempt to the first application.

As per claim 36:

Dugan discloses a system for regulating interprocess communication between applications, the system comprising:

a policy specifying applications (col.12, lines 45-67 and col.18, lines 57-67) that are permitted to communicate with a first application using interprocess communication; (col.14, lines 55-66 and col.17, lines 24-41)

a module for detecting a second application attempting to communicate with the first application using interprocess communication; and (col.25, lines 38-67 and col.27, lines 57-67)

an interprocess communication controller for identifying the second application attempting to communicate with the first application (col.18, line 47-col.19, line 56) and determining whether to permit the communication (col.21, lines 29-32 and col.24, lines 40-43) based upon the identification of the second application (col.26, lines 4-24 and col.27, lines 57-67) and the policy specifying applications permitted to communicate with the first application. (col.20, lines 35-62 and col.21, lines 27-32)

As per claim 37: See col.17, lines 24-41 and col.21, lines 27-32; discussing

the system of claim 36, wherein said policy includes rules indicating particular types of communications which are permitted.

As per claim 38: See col.20, lines 35-62 and col.21, lines 27-32; discussing the system of claim 36, further comprising: a rules engine for specifying applications that are permitted to communicate with the first application using interprocess communication.

As per claim 39: See col.12, lines 30-43 and col.18, lines 3-9; discussing the system of claim 36, further comprising: a registration module for establishing said policy.

As per claim 40: See col.18, lines 3-9 and col.20, lines 19-27; discussing the system of claim 39, wherein said registration module provides for identifying applications to be governed by said policy.

As per claim 41: See col.13, lines 42-50 and col.27, lines 60-65; discussing the system of claim 36, wherein said module for detecting a second application detects an operating system call to open a communication channel to the first application.

As per claim 42: See col.10, lines 28-50 and col.11, lines 20-25; discussing the system of claim 36, wherein said module for detecting a second application detects a graphical device interface (GDI) message sent to the first application.

As per claim 43: See; discussing the system of claim 36, wherein said module for detecting a second application detects a local procedure call attempting to access the first application.

As per claim 44: See col.13, lines 50-55 and col.15, lines 16-24; discussing the system of claim 36, wherein said module for detecting a second application redirects attempts to communicate with the first application to the interprocess communication controller.

As per claim 45: See col.13, lines 56-67 and col.19, lines 1-67; discussing the system of claim 36, wherein said module for detecting a second application reroutes the attempt to communicate with the first application from a dispatch table to the interprocess communication controller.

As per claim 46: See col.20, lines 35-62 and col.22, lines 45-50; discussing the system of claim 36, wherein said interprocess communication controller determines whether to permit the communication based, at least in part, upon evaluating parameters of the attempt made by the second application to communicate with the first application.

As per claim 47: See col.25, lines 60-67 and col.27, lines 43-56; discussing the system of claim 36, wherein said interprocess communication controller determines whether to permit the communication based upon obtaining user input as to whether to permit the second application to communicate with the first application.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEYNNA T. HA whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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